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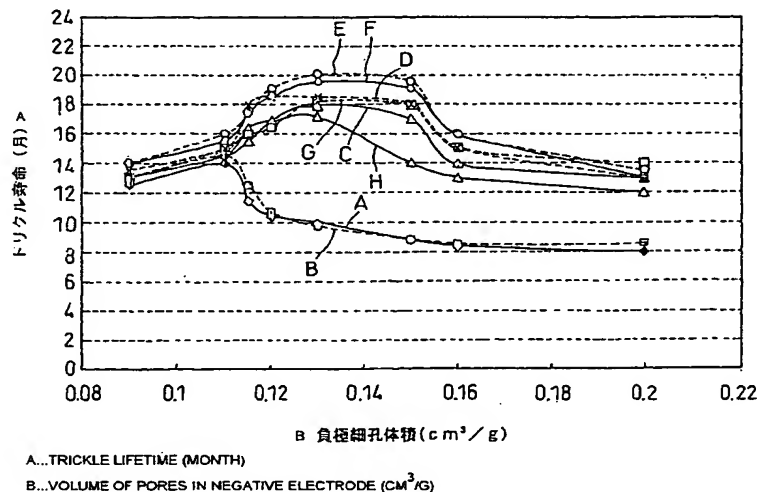
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(81) 指定国 (国内): CN, KR, US.

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(54) Title: CONTROL VALVE TYPE LEAD BATTERY

(54) 発明の名称: 制御弁式鉛蓄電池



(57) Abstract: A control valve type lead battery comprising an electrode plate group consisting of positive electrode plates each including a positive electrode current collector composed of a lead alloy containing Sn and a positive electrode active substance held on the positive electrode current collector, negative electrode plates each including negative electrode current collector composed of a lead alloy and a negative electrode active substance held on the negative electrode current collector, and separators, and electrolyte impregnated into the electrode plate group, wherein the content of Sn in the positive electrode current collector is 1.1-3.0 mass% and the volume of pores per unit mass of the negative electrode active substance is 0.115-0.150 cm³/g. With such an arrangement, the negative electrode plate exhibits a stabilized oxygen absorption power and corrosion of the current collector in the positive electrode plate is suppressed resulting in a control valve type lead battery having a stabilized long lifetime.

(57) 要約: 本発明の制御弁式鉛蓄電池は、Snを含有した鉛合金からなる正極集電体および前記正極集電体に保持された正極活物質を含む正極板と、鉛合金からなる負極集電体および前記負極集電体に保持された負極活物質を含む負極板と、セパレータとからなる極板群、ならびに前記極板群に含浸保持された電解液を具備し、前記正極集電体にお

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/07521

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.⁷ H01M10/06, 4/14, 4/68, C22C11/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁷ H01M10/06, 4/14, 4/68, C22C11/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Kokai Jitsuyo Shinan Koho	1971-2003	Jitsuyo Shinan Toroku Koho	1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 8-339819 A (Matsushita Electric Industrial Co., Ltd.), 24 December, 1996 (24.12.96), Claims; Par. Nos. [0015], [0017] (Family: none)	1, 2 3
Y	JP 61-80769 A (Shin-Kobe Electric Machinery Co., Ltd.), 24 April, 1986 (24.04.86), Claims; Fig. 1 (Family: none)	3
A	JP 10-302783 A (Shin-Kobe Electric Machinery Co., Ltd.), 13 November, 1998 (13.11.98), (Family: none)	1-3

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

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 "&" document member of the same patent family

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